

Set	Items	Description
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? e au=sat o,	yuki o?	

Ref	Items	Index-term
E1	2	AU=SATO, YUKI NORI (TOHOKU UNI V., SENDAI (JAPAN).
E2	722	AU=SATO, YUKI O
E3	0	*AU=SATO, YUKI O?
E4	7	AU=SATO, YUKI SHI GE
E5	45	AU=SATO, YUKI TA
E6	2	AU=SATO, YUKI TAKA
E7	1	AU=SATO, YUKI TERU
E8	21	AU=SATO, YUKI TO
E9	3	AU=SATO, YUKI TOM
E10	6	AU=SATO, YUKI TOSHI
E11	59	AU=SATO, YUKI YA
E12	35	AU=SATO, YUKI YASU

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	2	AU=SATO, YUKI NORI (TOHOKU UNI V., SENDAI (JAPAN).
	722	AU=SATO, YUKI O
S1	724	E1-E2

? s s1 and deoxyguanosine

	724	S1
	64174	DEOXYGUANOSINE
S2	0	S1 AND DEOXYGUANOSINE

? s s1 and guanosine

	724	S1
	250673	GUANOSINE
S3	0	S1 AND GUANOSINE

? e au=sako, y?

Ref	Items	Index-term
E1	1	AU=SAKO, Y. KADOTA, H.
E2	9	AU=SAKO, Y*
E3	0	*AU=SAKO, Y?
E4	14	AU=SAKO, YAMATO
E5	1	AU=SAKO, YASHUSHI
E6	2	AU=SAKO, YASUHI KO
E7	88	AU=SAKO, YASUHI RO
E8	71	AU=SAKO, YASUHI TO
E9	1	AU=SAKO, YASUJI
E10	1	AU=SAKO, YASUNORI
E11	80	AU=SAKO, YASUSHI
E12	141	AU=SAKO, YOI CHI RO

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Ref	Items	Index-term
E13	1	AU=SAKO, YOSHI BA
E14	10	AU=SAKO, YOSHI E
E15	2	AU=SAKO, YOSHI HARU
E16	270	AU=SAKO, YOSHI HI KO
E17	63	AU=SAKO, YOSHI HI RO
E18	2	AU=SAKO, YOSHI HI TO
E19	12	AU=SAKO, YOSHI O
E20	11	AU=SAKO, YOSHI TAKA
E21	1	AU=SAKO, YOSHI TO
E22	1	AU=SAKO, YOSHI TOMO
E23	15	AU=SAKO, YOSHI YASU

10553948deoxyguanosine.txt  
E24 1 AU=SAKQ, YOSHIOCHI KO

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Ref	Items	Index-term
E25	1	AU=SAKQ, YOSUKE
E26	2	AU=SAKQ, YUI CHI RO
E27	13	AU=SAKQ, YUJI
E28	5	AU=SAKQ, YUKA
E29	1	AU=SAKQ, YUKI
E30	1	AU=SAKQ, YUKI E
E31	2	AU=SAKQ, YUKI HI RO
E32	3	AU=SAKQ, YUKI KAZU
E33	3	AU=SAKQ, YUKI KO
E34	2	AU=SAKQ, YUKI NOBU
E35	21	AU=SAKQ, YUKI O
E36	6	AU=SAKQ, YUKI TOSHI

Enter P or PAGE for more

? s e35

S4 21 AU=SAKQ, YUKI O

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S5 20 RD (unique items)

? t s5/3, k/1-20

>>>KWIC option is not available in file(s): 399

5/3, K/1 (Item 1 from file: 103)

DI ALCO(R) File 103: Energy Sci Tec

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03893665 JPN-95-008168; EDB-95-137433

Title: High sensitivity X-ray analyzer for total X-ray fluorescence analysis

Author(s): Utaka, Tadashi; Sako, Yukio; Kohno, Hiroshi; Shoji, Takashi; Shimizu, Kazuaki (Rikaku Industrial Corp., Takatsuki, Osaka (Japan)); Miyazaki, Kunihiro; Shimazaki, Ayako

Source: X-sen Bunseki No Shinpo v 25. Coden: XBNSDA ISSN: 0911-7806

Publication Date: Mar 1994

p 203-212

Language: Japanese

... Author(s): Sako, Yukio

5/3, K/2 (Item 1 from file: 399)

DI ALCO(R) File 399: CA SEARCH(R)

(c) 2009 American Chemical Society. All rts. reserv.

148565615 CA: 148(25)565615 JOURNAL

History of copper refining technology (3)

AUTHOR(S): Sako, Yukio

LOCATION: National Science Museum Japan,

JOURNAL: Kozan (Kozan) DATE: 2007 VOLUME: 60 NUMBER: 1 PAGES: 31-40

CODEN: KOZADW ISSN: 0287-9840 LANGUAGE: Japanese PUBLISHER: Kinzoku Kozankai, Nippon Kogyo Kyokai

5/3, K/3 (Item 2 from file: 399)

DI/ALCOG/R File 399: CA SEARCH/R

(c) 2009 American Chemical Society. All rts. reserv.

147525580 CA: 147(25)525580y JOURNAL

History of copper smelting technology

AUTHOR(S): Sako, Yukio

LOCATION: Information Center of Industrial Technological History,  
National Science Museum Tokyo, Japan,

JOURNAL: Kozan (Kozan) DATE: 2006 VOLUME: 59 NUMBER: 11 PAGES: 39-52

CODEN: KOZADW ISSN: 0287-9840 LANGUAGE: Japanese PUBLISHER: Kinzoku  
Kozankai, Nippon Kogyo Kyokai

5/3, K/4 (Item 3 from file: 399)

DI/ALCOG/R File 399: CA SEARCH/R

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142438413 CA: 142(23)438413z PATENT

X-ray detector and its use in fluorescent x-ray analyzer

INVENTOR(AUTHOR): Sako, Yukio; Shoji, Takashi; Arage, Akira

LOCATION: Japan,

ASSIGNEE: Rigaku Industrial Corp.

PATENT: Japan Kokai Tokkyo Koho; JP 2005121400 A2 DATE: 20050512

APPLICATION: JP 2003354581 (20031015)

PAGES: 7 pp. CODEN: JXXXXF LANGUAGE: Japanese

PATENT CLASSIFICATIONS:

CLASS: G01T-007/00A; G01N-023/223B; G01T-001/20B

5/3, K/5 (Item 4 from file: 399)

DI/ALCOG/R File 399: CA SEARCH/R

(c) 2009 American Chemical Society. All rts. reserv.

141342550 CA: 141(20)342550v PATENT

Fluorescent x-ray analyzer

INVENTOR(AUTHOR): Ayukawa, Yasuhiro; Ono, Megumi; Sako, Yukio

LOCATION: Japan,

ASSIGNEE: Rigaku Industrial Corporation

PATENT: PCT International; WO 200488296 A1 DATE: 20041014

APPLICATION: WO 2004JP3229 (20040311) \*JP 200391965 (20030328)

PAGES: 14 pp. CODEN: PIXXD2 LANGUAGE: Japanese

PATENT CLASSIFICATIONS:

CLASS: G01N-023/223A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
 GE; GH; GM; GR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS;  
 LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;  
 PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;  
 UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ;  
 SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE;  
 BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL;  
 PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE;  
 SN; TD; TG

5/3, K/6 (Item 5 from file: 399)

DI/ALCOG/R File 399: CA SEARCH/R

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139239197 CA: 139(15)239197v PATENT

Apparatus for fluorescent x-ray analysis under helium

Page 3

10553948deoxyguanosi ne. txt  
INVENTOR(AUTHOR): Ni shi moto, Yuki o; M sonou, Takashi; Ki moto, Katsumi;  
Sako, Yuki o  
LOCATION: Japan,  
ASSIGNEE: F i gaku Industrial Corporation  
PATENT: Japan Kokai Tokkyo Koho; JP 2003254919 A2 DATE: 20030910  
APPLICATION: JP 200256800 (20020304)  
PAGES: 8 pp. CODEN: JKOXAF LANGUAGE: Japanese  
PATENT CLASSIFICATION:  
CLASS: G01N-023/223A

5/3, K/7 (Item 6 from file: 399)  
DI A LOG R File 399: CA SEARCH R  
(c) 2009 American Chemical Society. All rts. reserv.

139142918 CA: 139(9)142918t PATENT  
Wavelength dispersive fluorescence X ray spectrometer  
INVENTOR(AUTHOR): Ki moto, Katsumi; Sako, Yuki o  
LOCATION: Japan,  
ASSIGNEE: F i gaku Industrial Corporation  
PATENT: Japan Kokai Tokkyo Koho; JP 2003215073 A2 DATE: 20030730  
APPLICATION: JP 200218298 (20020128)  
PAGES: 5 pp. CODEN: JKOXAF LANGUAGE: Japanese  
PATENT CLASSIFICATION:  
CLASS: G01N-023/223A

5/3, K/8 (Item 7 from file: 399)  
DI A LOG R File 399: CA SEARCH R  
(c) 2009 American Chemical Society. All rts. reserv.

135295213 CA: 135(20)295213b PATENT  
X-ray detector  
INVENTOR(AUTHOR): Fujimori, Junji; Sako, Yuki o  
LOCATION: Japan,  
ASSIGNEE: F i gaku Denki Kogyo K. K.  
PATENT: Japan Kokai Tokkyo Koho; JP 2001281342 A2 DATE: 20011010  
APPLICATION: JP 200089348 (20000328)  
PAGES: 4 pp. CODEN: JKOXAF LANGUAGE: Japanese  
PATENT CLASSIFICATION:  
CLASS: G01T-001/18A; G01T-007/00B; H01J-047/06B

5/3, K/9 (Item 8 from file: 399)  
DI A LOG R File 399: CA SEARCH R  
(c) 2009 American Chemical Society. All rts. reserv.

134269101 CA: 134(19)269101y CONFERENCE PROCEEDING  
Copper-containing waste processing and recycling in Mtsui Mning &  
Smelting Co. Electrodeposited copper foil production from  
copper-containing recycling materials  
AUTHOR(S): Sako, Yuki o; Yuki masa, Toshiaki  
LOCATION: MESCO, Inc. Engineering Division of Mtsui Mning and Smelting  
Co., Ltd., Tokyo, Japan,  
JOURNAL: GME '99, Global Met. Environ., Proc. Global Conf. Environ.  
Control M n. Metall. EDITOR: Q u, Dingfan (Ed), Chu, Youyi (Ed), DATE:  
1999 PAGES: 406-412 CODEN: 69AXCI LANGUAGE: English PUBLISHER:  
International Academic Publishers, Beijing, Peop. Rep. China

5/3, K/10 (Item 9 from file: 399)  
DI A LOG R File 399: CA SEARCH R  
(c) 2009 American Chemical Society. All rts. reserv.

132169021 CA: 132(13)169021n JOURNAL  
Effective production increase method electrolytic copper  
AUTHOR(S): Yuki masu, Toshiaki; Kitahara, Takayoshi; Sako, Yuki o  
LOCATION: Mtsui Kinzoku Engineering Co., Ltd., Japan,  
JOURNAL: Kozan DATE: 1999 VOLUME: 52 NUMBER: 9 PAGES: 21-25 CODEN:  
KZADW ISSN: 0287-9840 LANGUAGE: Japanese PUBLISHER: Kinzoku Kozankai,  
Nippon Kogyo Kyokai

5/3, K/11 (Item 10 from file: 399)  
DI ALCOG R) File 399: CA SEARCH(R)  
(c) 2009 American Chemical Society. All rts. reserv.

129350333 CA: 129(26)350333u PATENT  
Method and device for setting incident radiation angular in total  
reflection X-ray fluorescence analysis  
INVENTOR(AUTHOR): Sako, Yuki o  
LOCATION: Japan,  
ASSIGNEE: Rigaku Denki Kogyo K. K.  
PATENT: Japan Kokai Tokkyo Koho; JP 98282021 A2; JP 10282021 DATE:  
19981023  
APPLICATION: JP 9783940 (19970402)  
PAGES: 11 pp. CODEN: JKXAF LANGUAGE: Japanese  
PATENT CLASSIFICATIONS:  
CLASS: G01N-023/223A; G01N-001/28B

5/3, K/12 (Item 11 from file: 399)  
DI ALCOG R) File 399: CA SEARCH(R)  
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128278342 CA: 128(22)278342f JOURNAL  
Development of portable X-ray fluorescence spectrometer  
AUTHOR(S): Hirai, Makoto; Utsuka, Tadashi; Sako, Yuki o; Niisawa, Atsushi;  
Nomura, Shigeaki; Tani guchi, Kazuo  
LOCATION: Rigaku Industrial Corporation, Takasaki, Japan, 369-1146  
JOURNAL: X-ray Science and Technology DATE: 1998 VOLUME: 29, PAGES: 93-104  
CODEN: XBNDA ISSN: 0911-7806 LANGUAGE: Japanese PUBLISHER: Agune  
Gijutsu Sentai

5/3, K/13 (Item 12 from file: 399)  
DI ALCOG R) File 399: CA SEARCH(R)  
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126123830 CA: 126(9)123830y PATENT  
X-ray detector for detecting the characteristic x-rays of a material  
INVENTOR(AUTHOR): Utsuka, Tadashi; Shoji, Takashi; Sako, Yuki o  
LOCATION: Japan,  
ASSIGNEE: Rigaku Denki Kogyo Kk  
PATENT: Japan Kokai Tokkyo Koho; JP 96313642 A2; JP 08313642 DATE:  
19961129  
APPLICATION: JP 95142674 (19950516)  
PAGES: 4 pp. CODEN: JKXAF LANGUAGE: Japanese  
PATENT CLASSIFICATIONS:  
CLASS: G01T-007/00A; G01N-023/223B; G01T-001/24B; G21K-003/00B

5/3, K/14 (Item 13 from file: 399)  
DI ALCOG R) File 399: CA SEARCH(R)  
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10553948deoxyguanosine.txt

120081421 CA: 120(8)81421 JOURNAL

The contribution of electrolytic manganese dioxide and zinc powder to recent improvement in dry battery performance

AUTHOR(S): Sako, Yukio; Sasaki, Masamoto; Kobayashi, Satoru; Senzaki, Hiroshi  
LOCATION: Battery Mater. Div., Mitsui M.n. and Smelting Co., Ltd., Japan,  
JOURNAL: Metall. Rev. MJ DATE: 1992 VOLUME: 9 NUMBER: 2 PAGES:  
152-61 CODEN: MRMED ISSN: 0289-6214 LANGUAGE: English

5/3, K/15 (Item 14 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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119194602 CA: 119(18)194602s JOURNAL

Ultratrace analysis by total reflection x-ray fluorescence method

AUTHOR(S): Utaka, Tadashi; Sako, Yukio; Kojima, Shinjiro; Iwamoto, Kanemasa; Kouno, Hiroshi; Atsumi, Jun  
LOCATION: Rigaku Ind. Corp., Takatsuki, Japan, 569  
JOURNAL: X-sen Bunseki no Shinpo DATE: 1992 VOLUME: 23, PAGES: 225-38  
CODEN: XBNSDA ISSN: 0911-7806 LANGUAGE: Japanese MEETING DATE: 910000

5/3, K/16 (Item 15 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

(c) 2009 American Chemical Society. All rts. reserv.

116206942 CA: 116(20)206942f JOURNAL

Instrumentation and applications of total reflection fluorescence spectroscopy

AUTHOR(S): Iwamoto, Kanemasa; Kojima, Shinjiro; Sako, Yukio; Utaka, Tadashi; Arai, Tomoya  
LOCATION: Rigaku Ind. Corp., Takatsuki, Japan,  
JOURNAL: Anal. Sci. DATE: 1991 VOLUME: 7 NUMBER: Suppl., Proc. Int. Congr. Anal. Sci., 1991, Pt. 1 PAGES: 499-502 CODEN: ANSCEN ISSN: 0910-6340 LANGUAGE: English

5/3, K/17 (Item 16 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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113204098 CA: 113(22)204098z JOURNAL

Instrumentation and applications of total reflection x-ray fluorescent spectrometry

AUTHOR(S): Sako, Yukio; Iwamoto, Kanemasa; Kojima, Shinjiro  
LOCATION: Rigaku Ind. Corp., Takatsuki, Japan, 569  
JOURNAL: X-sen Bunseki no Shinpo DATE: 1989 VOLUME: 21, PAGES: 123-34  
CODEN: XBNSDA ISSN: 0911-7806 LANGUAGE: Japanese

5/3, K/18 (Item 17 from file: 399)

DI ALCOG R) File 399: CA SEARCH(R)

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94054705 CA: 94(8)54705t CONFERENCE PROCEEDING

Current status of zinc electrolytic industries and energy saving

AUTHOR(S): Sako, Yukio  
LOCATION: Mitsui Kinzoku Kozan K. K., Japan,  
JOURNAL: Denki Kagaku Kogyo no Shoenerugii to Enerugii Kanri DATE: 1980  
PAGES: 9/1-13 CODEN: 44KFAB LANGUAGE: Japanese PUBLISHER: Denki Kagaku Kyokai, Tokyo, Japan

5/3, K/19 (Item 18 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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94054704 CA: 94(8)54704s CONFERENCE PROCEEDING

Current status of copper electrolytic industries and energy saving technology

AUTHOR(S): Sako, Yukio

LOCATION: Mtsui Kinzoku Kogyo K. K., Japan,

JOURNAL: Denki Kagaku Kogyo no Shoenerugii to Enerugii Kanri DATE: 1980

PAGES: 8/1-16 CODEN: 44KFAB LANGUAGE: Japanese PUBLISHER: Denki Kagaku Kyokai, Tokyo, Japan

5/3, K/20 (Item 1 from file: 8)

DIALOG(R) File 8: EI Compendex(R)

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0014312712 E.I. COMPENDEX No: 1999204602572

Examination of the effective method on increasing production capacity of copper electrorefining

Sako, Yukio; Nishimura, Yuji; Kitahara, Kokiichi; Yukimasa, Toshiaki

Corresp. Author/Affil: Sako, Yukio: MESOQ, Inc

Metallurgical Review of MMJ (Mining and Metallurgical Institute of Japan) (Metall Rev MMJ) 1998, 15/2 (175-183)

Publication Date: 19981201

Publisher: Mining and Metallurgical Inst of Japan

CODEN: MMME ISSN: 0289-6214

Document Type: Article; Journal Record Type: Abstract

Treatment: G. (General review)

Language: English Summary Language: English

Sako, Yukio; Nishimura, Yuji; Kitahara, Kokiichi; Yukimasa, Toshiaki

Corresp. Author/Affil: Sako, Yukio: MESOQ, Inc

? e au=kobayashi, hiroko?

Ref	Items	Index-term
E1	289	AU=KOBAYASHI, HI ROKI
E2	262	AU=KOBAYASHI, HI ROKO
E3	0	AU=KOBAYASHI, HI ROKO?
E4	34	AU=KOBAYASHI, HI ROKUNI
E5	1	AU=KOBAYASHI, HI ROKUNI*
E6	113	AU=KOBAYASHI, HI ROMASA
E7	349	AU=KOBAYASHI, HI ROM
E8	169	AU=KOBAYASHI, HI ROM CHI
E9	2	AU=KOBAYASHI, HI ROM CHI P.
E10	27	AU=KOBAYASHI, HI ROM TSU
E11	1	AU=KOBAYASHI, HI ROMN
E12	2	AU=KOBAYASHI, HI ROMOTO

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S6 262 AU=KOBAYASHI, HI ROKO

? s s6 and guanosine

262 S6

250673 GUANOSINE

S7 0 S6 AND GUANOSINE

? kobayashi, h?

>>>When using accession numbers with KEEP in OneSearch, you

>>>must use the FROM option to specify a file number.

? e au=kobayashi, h?

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E3	0	*AU=KOBAYASHI, H?
E4	15	AU=KOBAYASHI, HA
E5	7	AU=KOBAYASHI, HACHI RO
E6	1	AU=KOBAYASHI, HACHI SABURO
E7	1	AU=KOBAYASHI, HACHI SHI RO
E8	2	AU=KOBAYASHI, HACHI SI RO
E9	255	AU=KOBAYASHI, HAJI ME
E10	1	AU=KOBAYASHI, HAJI MJ
E11	2	AU=KOBAYASHI, HAKARU
E12	1	AU=KOBAYASHI, HAKUO

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E17	1	AU=KOBAYASHI, HARRY T
E18	4	AU=KOBAYASHI, HARUAKI
E19	5	AU=KOBAYASHI, HARUFUMI
E20	17	AU=KOBAYASHI, HARUHI KO
E21	12	AU=KOBAYASHI, HARUHI RO
E22	79	AU=KOBAYASHI, HARUHI TO
E23	21	AU=KOBAYASHI, HARUJI
E24	2	AU=KOBAYASHI, HARUJI RO

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Ref	Items	Index-term
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E26	68	AU=KOBAYASHI, HARUKI
E27	7	AU=KOBAYASHI, HARUKO
E28	80	AU=KOBAYASHI, HARUMI
E29	1	AU=KOBAYASHI, HARUMI CHI
E30	7	AU=KOBAYASHI, HARUNOBU
E31	382	AU=KOBAYASHI, HARUO
E32	1	AU=KOBAYASHI, HARUOMI
E33	1	AU=KOBAYASHI, HARUSHI GE
E34	34	AU=KOBAYASHI, HARUTO
E35	1	AU=KOBAYASHI, HARUTOKI
E36	22	AU=KOBAYASHI, HARUTOSHI

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E38	5	AU=KOBAYASHI, HARUYOSHI
E39	1	AU=KOBAYASHI, HARUYUKI
E40	2	AU=KOBAYASHI, HARUZI
E41	1	AU=KOBAYASHI, HARUZO
E42	1	AU=KOBAYASHI, HASAO
E43	11	AU=KOBAYASHI, HATASU
E44	1	AU=KOBAYASHI, HATATAKA
E45	4	AU=KOBAYASHI, HATSUE
E46	1	AU=KOBAYASHI, HATSUKO
E47	7	AU=KOBAYASHI, HATSUMI



10553948deoxyguanosine. txt  
E48 2 AU=KOBAYASHI, HATSUO

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Ref	Items	Index-term
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E50	1	AU=KOBAYASHI, HAYAJI

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E4	10	AU=KOBAYASHI, HAYATO
E5	1	AU=KOBAYASHI, HAYO
E6	1	AU=KOBAYASHI, HAZIME
E7	1	AU=KOBAYASHI, HAZUHIRO
E8	1	AU=KOBAYASHI, HEDEAKI
E9	1	AU=KOBAYASHI, HEDEKAZU
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E12	3	AU=KOBAYASHI, HEIDGO

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Ref	Items	Index-term
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E14	5	AU=KOBAYASHI, HEI HACHIRO
E15	14	AU=KOBAYASHI, HEIJI
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E17	2	AU=KOBAYASHI, HEISUKE
E18	2	AU=KOBAYASHI, HEITARO
E19	1	AU=KOBAYASHI, HERBERT K.
E20	1	AU=KOBAYASHI, HERBERT KUMEO
E21	6	AU=KOBAYASHI, HERBERT S.
E22	1	AU=KOBAYASHI, HERBERT S.
E23	4	AU=KOBAYASHI, HESTER
E24	3	AU=KOBAYASHI, HESTER A

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Ref	Items	Index-term
E25	5	AU=KOBAYASHI, HESTER A.
E26	2	AU=KOBAYASHI, HESTER ATSUKO
E27	1	AU=KOBAYASHI, HI ASSHI
E28	1	AU=KOBAYASHI, HI DDESABURO
E29	42	AU=KOBAYASHI, HI DE
E30	349	AU=KOBAYASHI, HI DEAKI
E31	1	AU=KOBAYASHI, HI DEASKI
E32	1	AU=KOBAYASHI, HI DEE
E33	18	AU=KOBAYASHI, HI DEFUM
E34	22	AU=KOBAYASHI, HI DEHARU
E35	679	AU=KOBAYASHI, HI DEHI KO
E36	10	AU=KOBAYASHI, HI DEHIRO

Enter P or PAGE for more

? page

Ref	Items	Index-term
E37	2	AU=KOBAYASHI, HI DEHISA

E38	4	AU=KOBAYASHI ,	HI DEHI TO
E39	19	AU=KOBAYASHI ,	HI DEJI
E40	1	AU=KOBAYASHI ,	HI DEJI RO
E41	1	AU=KOBAYASHI ,	HI DEJYU
E42	9	AU=KOBAYASHI ,	HI DEKA
E43	3	AU=KOBAYASHI ,	HI DEKATSU
E44	314	AU=KOBAYASHI ,	HI DEKAZU
E45	1	AU=KOBAYASHI ,	HI DEKAZU
E46	1142	AU=KOBAYASHI ,	HI DEKI
E47	1	AU=KOBAYASHI ,	HI DEKI DOW CORP INC T.
E48	1	AU=KOBAYASHI ,	HI DEKI MAI N OFFI CE F.

Enter P or PAGE for more

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Ref	Items	Index-term
E49	1	AU=KOBAYASHI , HI DEKI I
E50	17	AU=KOBAYASHI , HI DEKO

? page

Ref	Items	Index-term
E1	17	AU=KOBAYASHI , HI DEKO
E2	1	AU=KOBAYASHI , HI DELI
E3	27	AU=KOBAYASHI , HI DEMASA
E4	1	AU=KOBAYASHI , HI DEM
E5	6	AU=KOBAYASHI , HI DEM NE
E6	105	AU=KOBAYASHI , HI DEM TSU
E7	1	AU=KOBAYASHI , HI DEM TSU*
E8	5	AU=KOBAYASHI , HI DEMOTO
E9	1	AU=KOBAYASHI , HI DENARI
E10	23	AU=KOBAYASHI , HI DENOBU
E11	134	AU=KOBAYASHI , HI DENORI
E12	1	AU=KOBAYASHI , HI DENORO

Enter P or PAGE for more

? page

Ref	Items	Index-term
E13	1180	AU=KOBAYASHI , HI DEO
E14	2	AU=KOBAYASHI , HI DEO
E15	11	AU=KOBAYASHI , HI DEOM
E16	1	AU=KOBAYASHI , HI DEOTOSHI
E17	31	AU=KOBAYASHI , HI DESABURO
E18	139	AU=KOBAYASHI , HI DESHI
E19	54	AU=KOBAYASHI , HI DESHI ( ED)
E20	1	AU=KOBAYASHI , HI DESUKE
E21	1	AU=KOBAYASHI , HI DETADA
E22	1	AU=KOBAYASHI , HI DETADA
E23	62	AU=KOBAYASHI , HI DETAKA
E24	2	AU=KOBAYASHI , HI DETAKE

Enter P or PAGE for more

? page

Ref	Items	Index-term
E25	6	AU=KOBAYASHI , HI DETERU
E26	1	AU=KOBAYASHI , HI DETETSU
E27	10	AU=KOBAYASHI , HI DETO
E28	23	AU=KOBAYASHI , HI DETOMO
E29	560	AU=KOBAYASHI , HI DETOSHI
E30	14	AU=KOBAYASHI , HI DETSUGU
E31	4	AU=KOBAYASHI , HI DETSUNE
E32	2	AU=KOBAYASHI , HI DEYA

10553948deoxyguanosine.txt  
E33 1 AU=KOBAYASHI, HI DEYASU  
E34 1 AU=KOBAYASHI, HI DEYO  
E35 2 AU=KOBAYASHI, HI DEYOSHI  
E36 1 AU=KOBAYASHI, HI DEYUK

Enter P or PAGE for more  
? e au=kobayashi, hi roko

Ref	Items	Index-term
E1	289	AU=KOBAYASHI, HI ROKI
E2	262	*AU=KOBAYASHI, HI ROKO
E3	34	AU=KOBAYASHI, HI ROKUNI
E4	1	AU=KOBAYASHI, HI ROKUNI *
E5	113	AU=KOBAYASHI, HI ROMASA
E6	349	AU=KOBAYASHI, HI ROM
E7	169	AU=KOBAYASHI, HI ROM CHI
E8	2	AU=KOBAYASHI, HI ROM CHI P.
E9	27	AU=KOBAYASHI, HI ROM TSU
E10	1	AU=KOBAYASHI, HI ROMN
E11	2	AU=KOBAYASHI, HI ROMOTO
E12	53	AU=KOBAYASHI, HI ROMU

Enter P or PAGE for more

?  
PLEASE ENTER A COMMAND OR BE LOGGED OFF IN 5 MINUTES

? s e2 and guanosine  
262 AU=KOBAYASHI, HI ROKO  
250673 GUANOSI NE  
S8 0 AU=KOBAYASHI, HI ROKO AND GUANOSI NE

? s e2 and deoxyguanosine  
262 AU=KOBAYASHI, HI ROKO  
64174 DEOXYGUANOSI NE  
S9 0 AU=KOBAYASHI, HI ROKO AND DEOXYGUANOSI NE

? s deoxyguanosine and nucleotide  
64174 DEOXYGUANOSI NE  
2664177 NUCLEOTI DE  
S10 6444 DEOXYGUANOSI NE AND NUCLEOTI DE

? s s10 and (DNA or deoxri bonucleotide)

Processing  
Processed 20 of 56 files ...  
Completed processing all files

6444 S10  
9225258 DNA  
3 DEOKRI BONUCLEOTI DE  
S11 4725 S10 AND (DNA OR DEOKRI BONUCLEOTI DE)

? s s11 and methyl? and guanosine

Processing  
Processed 20 of 56 files ...  
>>>File 399 processing for METHYL? stopped at METHYLCHLORO SO  
>>>File 391 processing for METHYL? stopped at METHYL-2-(2-(3-CHLORPHENYL)-H  
YDRAZONO)-2-ISOPIR

Processing  
Processing  
Processed 30 of 56 files ...  
Completed processing all files

4725 S11  
12152350 METHYL?  
250673 GUANOSI NE  
S12 225 S11 AND METHYL? AND GUANOSI NE

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.  
S13 204 RD (unique items)

? t s13/3, k/1-1-15

>>>Successive range operators in itemlist

? t s13/3, k/1-15

>>>KWIC option is not available in file(s): 399

13/3, K/1 (Item 1 from file: 5)

DI ALCO R) File 5: Biosis Previews(R)

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17560993 BIOSIS NO.: 200300516356

3H-labelled alkyl-nucleotides, -nucleosides and -bases for the  
immunoanalytical quantification of DNA damage and repair.

AUTHOR: Drosdzioł Włfgang; Lutze Catrin; Krueger Kai; Guesenkamp

Karl-Heinz; Rajewsky Manfred F (Reprint)

AUTHOR ADDRESS: Medical School, Institute of Cell Biology (Cancer  
Research), University of Essen, Hufelandstrasse 55, D-45122, Essen,  
Germany\*\* Germany

AUTHOR E-MAIL ADDRESS: rajewsky@uni-essen.de

JOURNAL: Journal of Labelled Compounds and Radiopharmaceuticals 46 (9): p  
815-835 August 2003 2003

MEDIUM: print

ISSN: 0362-4803 (ISSN print)

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

3H-labelled alkyl-nucleotides, -nucleosides and -bases for the  
immunoanalytical quantification of DNA damage and repair.

ABSTRACT: Analysis of the formation and repair of structurally modified  
DNAs of particular interest in the study of carcinogenesis,  
cancer therapy and aging. The quantification of specific DNA  
lesions by sensitive immunoanalytical methods requires radiotracers with  
high specific activity. We describe the synthesis...

... alkyl-(8-3H) adenine (Alkyl=Me, Et, n-Bu); C6-alkyl-deoxy(1',2'-3H)  
guanosine (Alkyl=Me, Et, i-Pr, n-Bu); C6-ethyl-  
deoxyguanosine-5'-triphosphate ((2-3H-Ethyl); (8-3H));  
C6-alkyl-9-hydroxyhexyl-(8-3H) guanine (Alkyl=Me, Et); 7-ethyl-(8,5'-3H)  
guanosine-3',5'-cyclic-phosphate; C2- and C4-alkyl-(methyl,  
1',2'-3H)thymidine (Alkyl=Me, Et); the conversion of 3H-labelled  
thymidine to the corresponding 5-methylcytidine; the synthesis of  
three different 8-oxoguanine tracers; and the generation of thymidine  
glycol (5,6-dihydroxy-5,6-dihydro-(methyl-3H)thymidine) from  
thymidine. All radiotracers were successfully employed in competitive  
radioimmunoassays for the quantification of defined DNA alkylation  
products in DNA repair analyses.

#### DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ... tritiated 7-ethyl-guanosine  
-3',5'-cyclic-phosphate...

... tritiated O-6-alkyl-deoxy-guanosine-...

... tritiated O-6-ethyl-deoxyguanosine-5'-triphosphate

METHODS & EQUIPMENT: tritiated labelled alkyl-nucleotide synthesis

MISCELLANEOUS TERMS: DNA damage/repair...

CONCEPT CODES:

13/3, K/2 (Item 2 from file: 5)  
 DIALOG(R) File 5: Biosis Previews(R)  
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10352260 BIOSIS NO.: 199090136739  
 PROTON AND CARBON-13 NMR CONFORMATIONAL ANALYSIS AND MINIMAL POTENTIAL  
 ENERGY CALCULATIONS WITH DEOXYGUANOSINE GUANOSINE AND GMP  
 ADDUCTS OF THE BORDERLINE CARCINOGEN 4-METHYLANILINE  
 AUTHOR: MEIER C (Reprint); BOOHE G  
 AUTHOR ADDRESS: FACHBEREICH CHEM, UNI V MARBURG, HANS-MEERWEIN-STRASSE,  
 D-3550 MARBURG\* GERMANY  
 JOURNAL: Chemische Berichte 123 (8): p1707-1714 1990  
 ISSN: 0009-2940  
 DOCUMENT TYPE: Article  
 RECORD TYPE: Abstract  
 LANGUAGE: GERMAN

PROTON AND CARBON-13 NMR CONFORMATIONAL ANALYSIS AND MINIMAL POTENTIAL  
 ENERGY CALCULATIONS WITH DEOXYGUANOSINE GUANOSINE AND GMP  
 ADDUCTS OF THE BORDERLINE CARCINOGEN 4-METHYLANILINE

ABSTRACT: The conformations of the C-8-nucleobase adducts of the borderline  
 carcinogen 4-methylaniline (p-toluidine) N-(deoxyguanosine  
 -8-yl)-4-methylaniline (10), N-(guanosine-8-yl)-4-  
 methylaniline (11), and 8-(4-methylanilino  
 )-5'-guanosine monophosphate (12) have been investigated by 1H-, 13C-NMR  
 spectroscopy and "minimal-potential-energy..."

...the nucleoside adducts 10, 11 exist preferentially in the anti  
 conformation while the 5'-phosphorylated nucleotide adduct 12  
 exists in the syn conformation. Different conformations are also  
 observed around the backbone...

...nucleoside adducts 10, 11 show a strong preference for the gauche-gauche  
 conformation (ca. 90%), nucleotide adduct 12 exists mainly in the  
 gauche-trans/trans-gauche conformation (ca. 70%). All adducts...

...the conformational data of monocyclic arylamine adducts, 10, 11, and 12  
 with the conformations of DNA- or oligonucleotide-bonded 2-[(  
 deoxyguanosine-8-yl)amino]fluorene (6) shows, that the  
 conformational situations in the case of the...

...like 2-amino fluorene thus seems not to be connected with the  
 conformational changes of the DNA double helix caused by adduct  
 formation but rather with the in vivo metabolism to give...

...REGISTRY NUMBERS: DEOXYGUANOSINE; ...

...GUANOSINE; ...

...4-METHYLANILINE;  
 DESCRIPTORS: 2-AMINOFLUORENE HEPATOCARCINOGEN DNA  
 DESCRIPTORS:  
 CHEMICALS & BIOCHEMICALS: ...DEOXYGUANOSINE; ...

...GUANOSINE; ...

...4-METHYLANILINE;

13/3, K/3 (Item 3 from file: 5)  
 DIALOG(R) File 5: Biosis Previews(R)

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07308021 BIOSIS NO.: 198478043428  
 THE ROLE OF DEOXY NUCLEOSIDE TRI PHOSPHATE POOLS IN THE INHIBITION OF  
 DNA EXCISION REPAIR AND REPLICATION IN HUMAN CELLS BY HYDROXY UREA  
 AUTHOR: SNYDER R D (Reprint)  
 AUTHOR ADDRESS: STAUFFER CHEM CO, 400 FARMINGTON AVE, FARMINGTON, CT 06032,  
 USA\*\*USA  
 JOURNAL: Mutation Research 131 (3-4): p163-172 1984  
 ISSN: 0027-5107  
 DOCUMENT TYPE: Article  
 RECORD TYPE: Abstract  
 LANGUAGE: ENGLISH

THE ROLE OF DEOXY NUCLEOSIDE TRI PHOSPHATE POOLS IN THE INHIBITION OF  
 DNA EXCISION REPAIR AND REPLICATION IN HUMAN CELLS BY HYDROXY UREA

ABSTRACT: Effects of hydroxyurea (HU) on the DNA-excision repair  
 process in human cells was systematically examined. It is demonstrated  
 that HU induces DNA single-strand break accumulation in a  
 dose-dependent fashion in UV-irradiated and MMS[methyl  
 methanesulfonate]-treated confluent but not log-phase fibroblasts and  
 that these breaks are clearly the...  
 ...for at least 10 h and largely disappear by 20 h. The production of these  
 DNA-strand breaks is antagonized by a combined treatment of 10  
 .mu.M deoxyadenosine, deoxycytidine and deoxyguanosine; thymidine  
 potentiates strand-break formation at low HU concentrations. It is also  
 confirmed that HU, while inhibiting replicative synthesis has no apparent  
 inhibitory effect on unscheduled DNA synthesis (UDS) although the  
 increased uptake of labeled DNA precursors into HU-treated cells  
 makes it difficult to assess the actual effects on the...

...REGISTRY NUMBERS: METHYL METHANESULFONATE...

...DEOXYGUANOSINE;  
 DESORI PTORS: METHYL METHANESULFONATE UV MUTAGEN DEOXY ADENOSINE DEOXY  
 CYTIDINE DEOXY GUANOSINE METABOLIC DRUG ANTI DOTE RI BO  
 NUCLEOTIDE REDUCTASE/  
 DESORI PTORS:  
 CHEMICALS & BIOCHEMICALS: ...METHYL METHANESULFONATE...

...DEOXYGUANOSINE;

13/3,K/4 (Item 4 from file: 5)  
 DI ALCOG R File 5: Biosis Previews(R)  
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05965508 BIOSIS NO.: 198069079495  
 SYNTHESIS OF CARBON-14 LABELED METHYLDEOXY GUANOSINE AND ITS  
 DEOXY NUCLEOTIDE CO POLYMERS  
 AUTHOR: ABBOTT P J (Reprint); MEHTA J R; LUDLUM D B  
 AUTHOR ADDRESS: DEP PHARMACOL EXP THER, ALBANY MED COLL UNION UNIV, ALBANY,  
 NY 12208, USA\*\*USA  
 JOURNAL: Biochemistry 19 (4): p643-647 1980  
 ISSN: 0006-2960  
 DOCUMENT TYPE: Article  
 RECORD TYPE: Abstract  
 LANGUAGE: ENGLISH

SYNTHESIS OF CARBON-14 LABELED METHYLDEOXY GUANOSINE AND ITS  
 DEOXY NUCLEOTIDE CO POLYMERS

10553948deoxyguanosine.txt

ABSTRACT: To study the nature and repair of the promutagenic DNA lesions O6-methylguanine, 8-14C-labeled O6-methyldeoxyguanosine triphosphate [mGTP] was synthesized and the kinetics of its incorporation into the synthetic copolymers poly(dC [deoxycytidine], m6dG [deoxyguanosine]) and poly(dT [deoxythymosylthymidine], m6dG) was investigated. Deoxy[8-14C]guanosine was methylated with ethereal diazomethane and the products were separated by high-pressure liquid chromatography. O6-methyldeoxy[14C]guanosine was converted to the 5'-monophosphate with carrot phosphotransferase and then to the 5'-triphosphate...

...the action of N,N'-carbonyldiimidazole. Although m6dGTP was a poor substrate for Escherichia coli DNA polymerase I, copolymers could be synthesized from dCTP or dTTP and m6dGTP with terminal deoxynucleotidyl...

...poly(dC,m6dG). Good yields of both polymers were readily obtained. The stability of O6-methyldeoxyguanosine in poly(dT,m6dG) was pH dependent and the half-life was measured at 4 pH values. [The relationship between DNA lesions and carcinogenesis is discussed.]

DESCRIPTORS: ESCHERICHIA-COLI DNA POLYMERASE I CARROT PHOSPHOTRANSFERASE DEOXYNUCLEOTIDYL TRANSFERASE MUTAGENESIS CARCINOGENESIS

13/3,K/5 (Item 1 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
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0003193824 I.P. ACCESSION NO: 8021080  
DNA-Protein Cross-links between Guanine and Lysine Depend on the Mechanism of Oxidation for Formation of C5 Vs C8 Guanosine Adducts

Xu, Xiaoyun; Muller, James G. Ye, Yu; Burrows, Cynthia J  
Department of Chemistry, University of Utah, 315 S. 1400 East, Salt Lake City, Utah 84112-0850, [mailto:burrows@chem.utah.edu]

Journal of the American Chemical Society, v 130, n 2, p 703-709, 2008  
PUBLICATION DATE: 2008

PUBLISHER: American Chemical Society, P.O. Box 182426 Columbus OH 43218-2426 USA, [mailto:service@acs.org], [URL: http://pubs.acs.org]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 1272-7863

ELECTRONIC ISSN: 1520-5126

FILE SEGMENT: Nucleic Acids Abstracts

DNA-Protein Cross-links between Guanine and Lysine Depend on the Mechanism of Oxidation for Formation of C5 Vs C8 Guanosine Adducts

ABSTRACT:

The reaction between N super(alpha)-acetyllysine methyl ester (Lys) and 2'-deoxyguanosine (dGuo) was used to study structural aspects of DNA-protein cross-link (DPC) formation. The precise structure of DPCs depended on the nature of...

...Sp). Singlet oxygen oxidation of dGuo produced 5-Lys-Sp exclusively when Rose Bengal or methylene blue was used to photochemically generate super(1)O sub(2) in the presence of...

... of dGuo modifications from riboflavin photooxidation increased dramatically in the presence of lysine. Oxidation of deoxyguanosine /lysine mixtures with Na sub(2)IrO<sub>4</sub> sub(6) or sulfate radicals produced both 5...

...double-stranded oligodeoxynucleotides, and these could be analyzed after nuclease digestion. Adduct formation in duplex DNA was somewhat dependent on the accessibility of lysine to C5 vs C8 of the purine...

DESCRIPTORS: Adducts; DNA; Deoxyguanosine; Guanine; Guanosine; Lysine; Methylene blue; Nuclease; Oligonucleotides; Oxidants; Oxidation; Oxygen; Photochemistry; Photooxidation; Radicals; Riboflavin; Sulfate; purines  
...SUBJ CATG: Antisense; Nucleotide Analogs

13/3, K/6 (Item 2 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
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0003167481 IP ACCESSION NO: 8010995  
Anopheles gambiae Purine Nucleoside Phosphorylase: Catalysis, Structure, and Inhibition

Taylor, EA; Rinaldo-Matthis, A; Li, L; Ghanem M; Hazleton, KZ; Cassara, MB; Alro, SC; Schramm VL  
Department of Biochemistry, Albert Einstein College of Medicine at Yeshiva University, 1300 Morris Park Avenue, Bronx, New York 10461, USA

Biochemistry (Washington), v 46, n 43, p 12405-12415, October 30, 2007  
PUBLICATION DATE: 2007

DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ISSN: 0006-2960  
FILE SEGMENT: Nucleic Acids Abstracts

# ABSTRACT:

... for 2'-deoxyinosine and inosine, its preferred substrates, and 1.0 s super(-1) for guanosine. However, the chemical step is fast for AgPNP at 226 s super(-1) for guanosine in pre-steady-state studies.  
5'-Deaza-1'-aza-2'-deoxy-1'-(9-methylene)-Immucillin-H (DADMe-ImmH) is a transition-state mimic for a 2'-deoxyinosine ribocation with...

...transition state predictions of enhanced transition-state analogue binding in enzymes with enhanced catalytic efficiency. Deoxyguanosine is a weaker substrate than deoxyinosine, and DADMe-Immucillin-G is less tightly bound than...

DESCRIPTORS: Anions; Auxotrophs; Catalysis; Cations; Crystal structure; Deoxyguanosine; Enzymes; Genomes; Guanosine; Homology; Malaria; Nucleotide sequence; Parasites; Phosphate; Purine-nucleoside phosphorylase; purines; Anopheles gambiae; Escherichia coli; Plasmodium falciparum  
...SUBJ CATG: DNA Metabolism & Structure

13/3, K/7 (Item 3 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
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0001028450 I P ACCESSION NO: 2503074

Combined high-performance liquid chromatography/ super (32) P-postlabeling assay of N super (7)-methyl deoxyguanosine.

Shields, PG; Povey, AC; Wilson, VL; Weston, A; Harris, CC  
Lab. Hum. Carcinog., Div. Cancer Etiol., Natl. Cancer Inst., Build. 37, Rm 2C05, 9000 Rockville Pike, Bethesda, MD 20892, USA

Cancer Research, v 50, n 20, p 6580-6584, 1990

ADDL SOURCE INFO: Cancer Research [CANCER RES.], vol. 50, no. 20, pp. 6580-6584, 1990

PUBLICATION DATE: 1990

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0008-5472

FILE SEGMENT: Nucleic Acids Abstracts

Combined high-performance liquid chromatography/ super (32) P-postlabeling assay of N super (7)-methyl deoxyguanosine.

# ABSTRACT:

A highly sensitive and specific assay for the detection of N super (7)-methyl-2'-deoxyguanosine has been developed by combining high-performance liquid chromatography, super (32) P-postlabeling, and nucleotide chromatography.

IDENTIFIERS: N super (7)-methyl deoxyguanosine; detection; DNA; improvements; methodology; derivatives; high-performance liquid chromatography; guanosine

13/3, K/8 (Item 1 from file: 34)

DIALOG File 34: Sci Search(R) Cited Ref Sci

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12358629 Genuine Article#: 758PH No. References: 43

Title: A new, but old, nucleoside analog: the first synthesis of 1-deaza-2'-deoxyguanosine and its properties as a nucleoside and as oligodeoxynucleotides

Author: Kojima N (REPRINT) ; Inoue K; Nakajima-Shibata R; Kawahara S; Ohtsuka E

Corporate Source: Natl Inst AI ST, Inst Biol Resources & Funct, Toyohira Ku, 2-17-2-1 Tsukisamu Higashi / Sapporo / Hokkaido 0628517 / Japan / (REPRINT) ; Natl Inst AI ST, Inst Biol Resources & Funct, Toyohira Ku, Sapporo / Hokkaido 0628517 / Japan /; Natl Inst AI ST, Fellow Res Grp, Toyohira Ku, Sapporo / Hokkaido 0628517 / Japan /; Natl Inst AI ST, Cent 4, Gene Funct Res Lab, Tsukuba / Ibaraki 3058562 / Japan /

Journal: NUCLEIC ACIDS RESEARCH, 2003, V31, N24 (DEC 15), P7175-7188

ISSN: 0305-1048 Publication Date: 20031215

Publisher: OXFORD UNIV PRESS, GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND  
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: A new, but old, nucleoside analog: the first synthesis of 1-deaza-2'-deoxyguanosine and its properties as a nucleoside and as oligodeoxynucleotides

... Abstract: 2'-deoxy-beta-D-ribofuranosyl]imidazo[4,5-b]pyridin-7-one (1-deaza-2'-deoxyguanosine) is described. The compound was converted from the known AI CA-deoxyribose. The tautomeric structure of...

...form. Although the analog was found to be labile to acidic conditions, 1-deaza-2'-deoxyguanosine was successfully converted into a phosphoramidite derivative, which was incorporated into oligodeoxynucleotides by the standard phosphoramidite method. Thermal stabilities of oligodeoxynucleotides containing 1-deaza-2'-deoxyguanosine were investigated by thermal denaturing experiments. Also, a triphosphate analog of 1-deaza-2'-deoxyguanosine was synthesized for polymerase extension reactions. Single nucleotide insertion reactions using a template containing 1-deaza-2'-deoxyguanosine, as well as 1-deaza-2'-deoxyguanosine triphosphate, were performed using the Klenow fragment (exonuclease minus) polymerase and other polymerases. No hydrogen bonded base pairs, even a 1-deaza-2'-deoxyguanosine:cytidine base pair, were indicated by thermal denaturing studies. However, though less selective and less effective than the natural guanosine counterpart, the polymerase extension reactions suggested the formation of a base pair of 1-deaza-2'-deoxyguanosine with cytidine during the insertion reactions.

...Identifiers: DNA- POLYMERASE- BETA; KLENOW FRAGMENT; HYDROGEN- BONDS; MINOR- GROOVE; STABILITY; C-6-METHYLGUANINE; 1-DEAZAGUANOSINE; NUCLEOTIDES; BINDING; OLIGONUCLEOTIDES

13/3, K/9 (Item 2 from file: 34)  
 DIALOG(R) File 34: SciSearch(R) Cited Ref Sci  
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08094615 Genuine Article#: 246MD No. References: 50  
 Title: Is C-1(2) alone sufficient for DNA cleavage? Possible involvement of paramagnetic intermediates  
 Author: Chanon M (REPRINT); Julliard M; Mehta G; Maiya BG  
 Corporate Source: FAC SCI & TECH ST JEROME LAB AMB, CASE 561/F-13397 MARSEILLE 20//FRANCE/ (REPRINT); INDIAN INST SCI, DEPT ORGAN CHEM BANGALORE 560012/KARNATAKA/INDIA; UNIV HYDERABAD, SCH CHEM HYDERABAD 500046/ANDHRA PRADESH/INDIA  
 Journal: RESEARCH ON CHEMICAL INTERMEDIATES, 1999, V25, N7, P633-644  
 ISSN: 0922-6168 Publication Date: 19990000  
 Publisher: VSP BV, PO BOX 346, 3700 AH ZEIST, NETHERLANDS  
 Language: English Document Type: REVIEW (ABSTRACT AVAILABLE)

Title: Is C-1(2) alone sufficient for DNA cleavage? Possible involvement of paramagnetic intermediates  
 Abstract: It is proposed that singlet dioxygen reacting with guanosine or deoxyguanosine part of nucleotides does not, by itself, cause DNA cleavage. The strand break originates at the endoperoxide stage whenever this link evolves into a...

...spatial position to abstract an hydrogen intramolecularly from the ribose or deoxyribose part of the nucleotide. The carbon centered radical thus formed on the sugar part may lead to strand break

...Identifiers: SINGLET OXYGEN; METHYLENE-BLUE; II MECHANISMS; STRAND BREAKS; NUCLEIC ACIDS; PLUS LIGHT; OXIDATION; DAMAGE; GUANINE; BASE

13/3, K/10 (Item 3 from file: 34)  
 DIALOG(R) File 34: SciSearch(R) Cited Ref Sci  
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06991103 Genuine Article#: 112NK No. References: 76  
 Title: Prolonged depletion of guanosine triphosphate induces death of insulin-secreting cells by apoptosis

10553948deoxyguanosine.txt  
 Author: Li GD (REPRINT); Segu VBG; Rabaglia ME; Luo RH; Kowliuru A; Metz SA  
 Corporate Source: NATL UNIV SINGAPORE; NATL UNIV MED INST; MD 11 02-01, 10  
 KENT RIDGE CRESCENT/ SINGAPORE 119260/ SINGAPORE/ (REPRINT); WILLIAM S  
 M DDLETON MEM VET ADM MED CTR, ENDOCRINOLOGY, MED  
 SERV/ MADI SON/ W/ 53705; UNI V W SOONSIN, SCH MED, DEPT MED, DI V  
 ENDOCRINOLOGY/ MADI SON/ W/ 53792  
 Journal: ENDOCRINOLOGY, 1998, V139, N9 (SEP), P3752-3762  
 ISSN: 0013-7227 Publication Date: 19980900  
 Publisher: ENDOCRINE SOC, 4350 EAST WEST HIGHWAY SUITE 500, BETHESDA, MD  
 20814-4110  
 Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: Prolonged depletion of guanosine triphosphate induces death of  
 insulin-secreting cells by apoptosis  
 ... Abstract: Both MPA and mizoribine inhibited mitogenesis, as reflected by  
 [<sup>3</sup>H]-thymidine incorporation. Cell number, DNA and protein  
 contents, and cell (metabolic) viability were decreased by about 30%  
 60% and 80%...  
 ... prolonged MPA treatment. MPA-treated HIT cells displayed a strong and  
 localized staining with a DNA-binding dye (propidium iodide),  
 suggesting condensation and fragmentation of DNA, which were  
 confirmed by detection of DNA laddering in multiples of about 180  
 bp. DNA fragmentation was observed after 24-h MPA treatment and  
 was dose dependent (29% 49% and...  
 ... and loss of microvilli, MPA-induced cell death was almost totally  
 prevented by supplementation with guanosine, but not with  
 adenosine or deoxyguanosine, indicating a specific effect of GTP  
 depletion. An inhibitor of protein isoprenylation (lovastatin, 10-100  
 µM for 2-3 days) induced cell death and DNA degradation similar  
 to those induced by sustained GTP depletion, suggesting a mediatory  
 role of posttranslationally...  
 ... death compatible with apoptosis; this probably involves a direct  
 impairment of GTP-dependent RNA-primed DNA synthesis, but also  
 appears to be modulated by small GTP-binding proteins. Treatment of  
 intact...  
 ... Identifiers: GTP-BINDING PROTEINS; CEREBELLAR GRANULE NEURONS; HUMAN  
 PANCREATIC ISLETS; INTACT RAT ISLETS; BETA-CELLS; DNA-SYNTHESIS;  
 MACROMOLECULAR-SYNTHESIS; MYCOPHENOLATE-MCFETIL; NUCLEOTIDE  
 PRECURSORS; CARBOXYL METHYLATION

13/3, K11 (Item 4 from file: 34)  
 DI ALCO R) File 34: Sci Search(R) Cited Ref Sci  
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05164320 Genuine Article#: VE373 No. References: 54  
 Title: ONE-ELECTRON OXIDATION REACTIONS OF SOME PURINE AND PYRIMIDINE-BASES  
 IN AQUEOUS SOLUTIONS - ELECTROCHEMICAL AND PULSE-RADIOLYSIS STUDIES  
 Author: FARAGGI M; BROITMAN F; TRENT JB; KLAPPER MH  
 Corporate Source: NUCL RES CTR NEGEV, DEPT CHEM PCB 9001/IL-84190 BEER  
 SHEVA/ISRAEL; OHIO STATE UNIV, DEPT CHEM BIOL CHEM  
 DI V COLUMBUS/ OH/ 43210  
 Journal: JOURNAL OF PHYSICAL CHEMISTRY, 1996, V100, N35 (AUG 29), P  
 14751-14761  
 ISSN: 0022-3654  
 Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Abstract: The reduction potentials of some purine and pyrimidine bases and  
 the guanine nucleoside and nucleotide at pH values between 7 and  
 13 were investigated using the techniques of cyclic voltammetry...

10553948deoxyguanosine.txt  
 ...volts vs NHE, at pH 7 are those of xanthine, 0.88 V, and 1-methyl guanine, 1.06 V (NHE). The extrapolated value of guanine is ca. 1.0 V. Ve...  
 ...a radical-radical mechanism with a second-order rate constant. However, the guanine nucleosides and nucleotide radicals have shown at all pHs two consecutive processes (first order followed by a second...  
 ...of a new transient was observed at pH greater than or equal to 9 for guanosine, pH greater than or equal to 11 for 2'-deoxyguanosine, and at pH 13 for 5'-GMP. The observed new transient spectra were similar to...  
 ...for the oxidized guanine radical. Therefore, we suggest that in these oxidized guanine nucleosides and nucleotide the oxidized guanine radical has been released. As previously suggested our results imply that the...  
 ...83, 1-11) we suggest a proton assisted mechanism for a double-strand break in DNA.  
 ...Identifiers: REDOX POTENTIALS; FREE-RADICALS; REDUCTION POTENTIALS; RATE CONSTANTS; DNA; NUCLEOSIDES; CHEMISTRY; TRYPTOPHAN; CYTOSINE; TYROSINE

13/3, K/12 (Item 5 from file: 34)  
 DIALOG(R) File 34: SciSearch(R) Cited Ref Sci  
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04362220 Genuine Article#: RZ240 No. References: 81  
 Title: X-RAY CRYSTAL-STRUCTURE ANALYSIS OF THE CATALYTIC DOMAIN OF THE ONCOGENE PRODUCT P21(H-RAS), COMPLEXED WITH CAGED GTP AND MANT dGppNHP  
 Author: SCHENK DJ AJ; FRANKEN SM; CORRIE JET; REID GP; WITTINGHOFFER A; PALEF; GOODY RS  
 Corporate Source: MAX PLANCK INST MOLEK PHYSIK, RHEINLANDDAMM 201/D-44026 DORTMUND/GERMANY; MAX PLANCK INST MOLEK PHYSIK/D-44026 DORTMUND/GERMANY; MAX PLANCK INST MED RES, BIOPHYS ABT/D-69028 HEIDELBERG/GERMANY; NATL INST MED RES/LONDON NW7 1AA/ENGLAND; UNIV TORONTO, DEPT BIOCHEM & MOLEC & MED GENET/TORONTO ON M5S 1A8/CANADA  
 Journal: JOURNAL OF MOLECULAR BIOLOGY, 1995, V253, N1 (OCT 13), P132-150  
 ISSN: 0022-2836  
 Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: H-ras (residues 1 to 166) and the nucleotides P-3-1-(2-nitrophenyl)ethyl guanosine triphosphate ('caged GTP'; pure R- and S-diastereomers) and 3'-O-(N-methylanthraniloyle)-2'-deoxyguanosine 5'-(beta,gamma-imido)-triphosphate ('mant dGppNHP'), have been refined to an R-factor of...  
 ...of loop L2 (residues Glu31 to Thr35) where the additional aromatic group attached to the nucleotide comes very close to the side-chain of Tyr32, including backbone displacements of 2.6...  
 ...and mant dGppNHP, respectively. The refined structures provide additional data for the design of new nucleotide analogs and the importance of their stereochemistry as well as for the design of new...  
 ...Identifiers: NUCLEOTIDE EXCHANGE; SACCHAROMYCES-CEREVISIAE; 3-DIMENSIONAL STRUCTURES; DIFFRACTION DATA; TRIPHOSPHATE CONFORMATION; MOLECULAR MECHANISM; ALPHA-CHYMOTRYPSIN; ACTIVATING  
 ...Research Fronts: NMR RESONANCE ASSIGNMENTS; SECONDARY STRUCTURE ELEMENTS; BOVINE PANCREATIC TRYPSIN-INHIBITOR; GLOBAL FOLD OF OXIDIZED MEPP; DNA-BINDING DOMAIN  
 93-3088 001 (RAT MUSCLE; PROTEIN PHOSPHATASE-1; MAJOR GLUTATHIONE

TRANSFERASE)

13/3, K/13 (Item 1 from file: 72)  
 DIALCO (F) File 72: EMBASE  
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0082062390 EMBASE No: 2007496932  
 Stereospecific synthesis and characterization of  
 oligodeoxyribonucleotides containing an N<sup>2</sup>-(1-carboxyethyl)-2'-prime-  
 deoxyguanosine

Cao H.; Jiang Y.; Wang Y.  
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Journal of the American Chemical Society ( J. Am. Chem. Soc. ) (United  
 States) October 10, 2007, 129/40 (12123-12130)  
 CODEN: JACSA ISSN: 0002-7863  
 DOI: 10.1021/ja072130e  
 DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract  
 LANGUAGE: English SUMMARY LANGUAGE: English  
 NUMBER OF REFERENCES: 45

Stereospecific synthesis and characterization of  
 oligodeoxyribonucleotides containing an N<sup>2</sup>-(1-carboxyethyl)-2'-prime-  
 deoxyguanosine

Methylglyoxal is a highly reactive alpha-ketoaldehyde that is  
 produced endogenously and present in the environment and foods. It can  
 modify DNA and proteins to form advanced glycation end products  
 (AGEs). Emerging evidence has shown that N<sup>2</sup>-(1-carboxyethyl)-2'-prime-  
 deoxyguanosine (N<sup>2</sup>-CEdG) is a major marker for AGE-linked  
 DNA adducts. Here, we report, for the first time, the preparation of  
 oligodeoxyribonucleotides (ODNs) containing individual...

...block considerably the replication synthesis mediated by the  
 exonuclease-free Klenow fragment of Escherichia coli DNA polymerase  
 I. Strikingly, the polymerase incorporated incorrect nucleotides, dGMP and  
 dAMP, opposite the lesion more preferentially than the correct  
 nucleotide, dCMP. (c) 2007 American Chemical Society.

#### DRUG DESCRIPTIONS:

\*deoxyguanosine derivative; \*oligodeoxyribonucleotide  
 adenosine phosphate; advanced glycation end product; aldehyde derivative;  
 cytidine phosphate; DNA polymerase; exonuclease; guanosine  
 phosphate; ketone derivative; methylglyoxal

#### MEDICAL DESCRIPTIONS:

article; diastereoisomer; DNA adduct; DNA modification;  
 Escherichia coli; melting point; molecular stability; oligomerization;  
 protein modification; reaction analysis; synthesis; thermodynamics

DRUG TERMS (UNCONTROLLED): n 2 (1-carboxyethyl) 2'-deoxyguanosine  
 ... CAS REGISTRY NO.: 8063-98-7 (adenosine phosphate); 63-37-6 (cytidine  
 phosphate); 37217-33-7 (DNA polymerase); 37228-74-3 (exonuclease)  
 ; 29593-02-0...

... 85-32-5 (guanosine phosphate); 78-98-8 (methylglyoxal)

DI ALCOG R) File 72: EMBASE

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0079735258 EMBASE No: 2003445075

8-Methylguanosine: A Powerful Z-DNA Stabilizer

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Journal of the American Chemical Society ( J. Am. Chem. Soc. ) ( United States) November 5, 2003, 125/44 (13519-13524)

CODEN: JACSA ISSN: 0002-7863

DOI: 10.1021/ja036233i

DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

NUMBER OF REFERENCES: 33

## 8-Methylguanosine: A Powerful Z-DNA Stabilizer

...SUB 4 of d(CGCGCG) SUB 2 to evaluate their capacity to stabilize Z-form DNA. It was found that the incorporation of 8-methylguanosine (mSUP 8G) in oligonucleotides stabilizes the Z form more dramatically than does the incorporation of 8-methyl-2prime-deoxyguanosine (mSUP 8G). This enhancement is ascribed to a reduction in the entropic penalty, which...

...introduction of hydrophilic groups in solvent-exposed regions. The incorporation of mSUP 8G into DNA sequences markedly stabilizes the Z form even in the absence of NaCl. The Z-DNA stabilizer allows oligonucleotides with a wide range of sequences to be converted to the Z...

## DRUG DESCRIPTIONS:

\*DNA; \*guanosine derivative

## MEDICAL DESCRIPTIONS:

\*DNA conformation

article; chemical reaction; entropy; hydrophilicity; nucleotide sequence; synthesis

DRUG TERMS (UNCONTROLLED): 8-methyl-2'-deoxyguanosine; 8-methylguanosine

CAS REGISTRY NO.: 9007-49-2 (DNA); 7647-14-5 (sodium chloride)

13/3, K/15 (Item 3 from file: 72)

DI ALCOG R) File 72: EMBASE

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0077071763 EMBASE No: 1997365032

DNA helicase activity of the hepatitis C virus nonstructural protein 3

Gwak Y.; Kim D.W.; Han J.H.; Choe J.

Department of Biological Sciences, Korea Adv. Inst. Sci. and Technol.,

Taejeon, Korea, Republic of

CORRESP. AUTHOR AFFILI: Choe J.: Department of Biological Sciences, Korea Advanced Inst. Sci./Technology, Taejeon 305-701, Korea, Republic of

European Journal of Biochemistry ( EUR. J. BIOCHEM. ) ( Germany) December 9, 1997, 250/1 (47-54)

CODEN: EJBCHA ISSN: 0014-2956

DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

NUMBER OF REFERENCES: 37

# DNA helicase activity of the hepatitis C virus nonstructural protein 3

...HCV) nonstructural protein 3 (NS3) is a known RNA helicase, an enzyme that unwinds RNA-DNA and RNA-RNA duplexes. We have now deciphered the biochemical characteristics of the HCV NS3 DNA helicase activity. Recombinant NS3 was expressed in *Escherichia coli*, purified to near homogeneity, and tested for DNA helicase activity. The optimal conditions for DNA unwinding (for example, the preferred pH and magnesium ion concentration) were similar to those for RNA unwinding. The DNA helicase activity was very sensitive to potassium ion concentration, while DNA binding and DNA-stimulated ATPase activities were not. The direction of DNA unwinding was determined to be 3' to 5'. All four ribonucleoside triphosphates (ATP, GTP, CTP...

...serve as energy sources, but GTP and dGTP were less efficient than the others. When nucleotide analog inhibitors were added to the DNA helicase reaction, the overall order of inhibitory capacity was: adenosine 5'-O-(3-thiotriphosphate) > adenylyl-imidodiphosphate and adenylyl-(beta,gamma-methylene)-diphosphate > AMP. DNA helicase activity was inhibited strongly by ssDNA and ssRNA, but was little affected by dsDNA...

...not by dsDNA. The NS3 protein could unwind up to 500 base pairs of duplex DNA. The possible multifunctional nature of the NS3 protein is discussed and compared with that of...

## DRUG DESCRIPTIONS:

adenosine 5'-o-(3-thiotriphosphate); adenosine phosphate; adenosine triphosphatase; adenosine triphosphate; adenylylimidodiphosphate; beta,gamma-methylenadenosine triphosphate; cytidine triphosphate; deoxyadenosine triphosphate; deoxycytidine triphosphate; deoxyguanosine triphosphate; dna; double stranded dna; guanosine triphosphate; magnesium ion; potassium ion; recombinant enzyme; ribonucleoside; rna; single stranded dna; thymidine triphosphate; uridine triphosphate; virus enzyme; virus protein

## MEDICAL DESCRIPTIONS:

article; controlled study; dna binding; dna denaturation; enzyme activity; enzyme inhibition; enzyme purification; enzyme substrate; *escherichia coli*; nonhuman; ph; priority journal...

...CAS REGISTRY NO.: 987-65-5 (adenosine triphosphate); 25612-73-1 (adenylylimidodiphosphate); 3469-78-1 (beta,gamma-methylenadenosine triphosphate); 65-47-4 (cytidine triphosphate); 1927-31-7 (deoxyadenosine triphosphate); 2056-98-6 (deoxycytidine triphosphate); 2564-35-4 (deoxyguanosine triphosphate); 9007-49-2 (DNA); 86-01-1 (guanosine triphosphate); 42613-29-6 (helicase); 22537-22-0 (magnesium ion); 24203-36-9 (potassium ion...